

# **Proposal**

**Armada Systems Proposal  
Design Build Criteria for Underwater Cleaning  
Of Barton Springs, City of Austin  
Aquatics Department**



Farhad Madani  
Aquatic Program Manager  
City of Austin  
Austin Parks and Recreation  
P.O. Box 1088  
Austin, Texas 78767

Armada Systems is the world leader in underwater cleaning equipment. Armada's patented system is the only true environmentally safe cleaning system. This system utilizes tap water with no lubricates or additives, making this equipment the number one choice in Aquariums and Sea Parks. Armada Systems design build capabilities on site consultation, insures customers needs for unique cleaning solutions.

Armada Systems has a proven track record of on time delivery, customer satisfaction and reliable design. This system is environmentally safe and economically feasible.

Armada Systems design and manufacture underwater equipment for over 40 facilities worldwide. Example, facilities with sensitive marine life that requires daily cleaning includes, Monterey Bay Aquarium-Monterey, CA Living Seas/Epcot Center-Orlando, FL and Shedd Aquarium-Chicago, IL. Cleaning is accomplished with Armada Systems diver operated water powered cleaning equipment, without dropping or draining pools. Also without disturbing or relocating Marine Life.

After consulting with The City of Austin, Aquatics Dept. Staff, we propose the following design build equipment for the underwater cleaning and maintenance of Barton Springs.

(2) AS W12 Hydro Heads

Diver operated cleaning heads that will except 8", 12" & 14" OD underwater cleaning brushes.

Each unit produces 3.5 HP

Equipped with diver on/off switch

Diver control buoyancy collar with underwater inflation connector and

Air bleed off valve

Stainless steel universal drive head with magna pattern brush attachment

Coated bright yellow in color for visibility and corrosion resistance.

Unit is constructed using aluminum, stainless steel and titanium.

#1 Vacuum/Shroud Assembly

Maximum brush diameter is 12" OD when using vacuum/shroud

Contour conforming skirt assembly

2" Vacuum/Hose attachment point aids in 98% recovery of dislodged algae and debris up to 1.5" in diameter

Diver controlled variable suction flow control

Constructed of marine grade aluminum coated yellow in color

#2 Vacuum/Shroud Assembly

Vacuum/Shroud assembly is to be constructed with a design build walk behind handle assembly.

This attachment can be removed for regular cleaning application

This attachment is designed for a diver to walk behind in an upright position

For cleaning in water of 4 Ft. in depth or less

This expedites cleaning in shallow areas and can be accomplished by non-diver personnel

Diver control on/off switch and pressure gauge

Diver control buoyancy compensator

(1) Design build tool-Hydro Pressure Water Jetting Tool

Designed for deep indentations with 90% recovery of dislodged algae and sediment material.

4" Vacuum/Shroud assembly with rotor jet head

Diver control trigger assembly

2" Vacuum/Hose hookup connection

(1) Design build tool-Deep Crevice Tool

Designed for cleaning deep crevices or ledge areas.

(1) Design build tool-Rolling Vac Head Assembly Diver Operated

Designed for pre-cleaning of heavy sediment deposits after heavy rains or flood.

(12) Underwater Cleaning Brushes 12" OD

Brush material to be determined by Aquatics staff before delivery.

Number 1 Cart Assembly (See Blueprint)

The following equipment will be mounted on design build cart assembly.

Lockable storage area to house Hydro Heads, Brushes and Spare Parts.

Tow Hitch

Oversized wheels for unimproved terrain-Max. cart speed 10 MPH

(2) Commercial Continuous Duty High Pressure Water Pumps to power AS W12 Hydro Heads.

Pumps are equipped with liquid fill PSI gauge and thermo relief valve

(2) 5 HP Commercial continuous duty electric motors O.D.P.

3 phase 460 volts 20 Amp intergraded ground fault circuit breaker (GFI)

All electrical connections are fitted with water tight connectors.

(2) High Pressure Hose Reels

(2) 150 Ft. 3/8" Hydro Hoses with stainless steel ends and marine brass Quik Disconnects (QD)

(2) Pre-Water Filters -10 Micron Absolute Filter with acrylic housing and differential liquid fill pressure gauges

(2) 100 Ft. Power Cords with water tight lock connectors

\*Diving Compressor

(1) Diving Compressor mounted on top of cart with protective cover  
(See Blueprint)

3 Phase electric motor 460 volts with intergraded Ground Fault Circuit Breaker (GFI) All connections are water tight

Produces 4 CFM @ 115 PSI breathable air 100% oil-less

9 Gallon stainless steel Volume Tank with safety check valve and air gauge

(2) 150 Ft. Surface Supplied Dive Hose connected to hose reels

(2) Commercial Twin Shoulder Style Harnesses

(2) Full Face Mask

(2) Second Stage Regulators

(2) BC Hose Whip Connectors (Vest not included)

(1) 100 Ft. Power Cable with water tight twist lock connectors

Number 2 Cart Assembly for Trash Pump

Trash Pump powered by 10 HP 3 Phase 460 volts 20 AMPs, Electric Motor O. D. P.

4" Trash Pump mounted and intergraded with Ground Fault Circuit Breaker (GFI) assembly all connections are water tight

100 Ft. Power Cable with water tight twist lock connectors

(8) 50 Ft. 2" Suction Hoses

(2) 100 Ft. 4" Discharge Hoses

(1) "T" Valve Assembly for using 2 Vacuum/Shroud Assemblies

\*Spare Parts

- (1) Regulator
  - (1) Face Mask
  - (2) Face Mask Spider Tightening Assemblies
  - (4) Pre Pump Water Filters-10 Micron
  - (4) Water Filter Gasket Assemblies for water filter housing
  - (2) Pressure and Suction Liquid Fill Gauges
  - (2) High Pressure Liquid Fill PSI Gauges
  - (2) Dive Hose Splice Kits
  - (1) Dive Compressor Unloader Valve
  - (12) Male Stainless Steel QD's Hose Connectors
  - (12) Female Brass QD's Hose Connectors
  - (12) Male Brass Hose Connectors
  - (2) Bronze Check Valve Assemblies for case drain on cleaning heads
  - (1) Unloader Pump Assembly for high pressure pump
  - (1) Marine Male Electric Cord Connector for High Pressure Pump
  - (1) Marine Male Connector for Dive Compressor
  - (1) Marine Male Connector for Trash Pump
- Assortment of wrenches required in maintenance tasks

(2) Operational Manuals

1 Case High Pressure Pump Lubricating Oil (12 Quarts)

It is the responsibility of The City of Austin , Aquatics Dept. for the distribution of power to all desired working locations. To install water tight distribution boxes that would contain outlets for power distribution to the various cleaning equipment. Plug type will be specified by Armada Systems, but not furnished.

FOB (Freight Out Bound) Mary Esther, Fl \$46,767.00

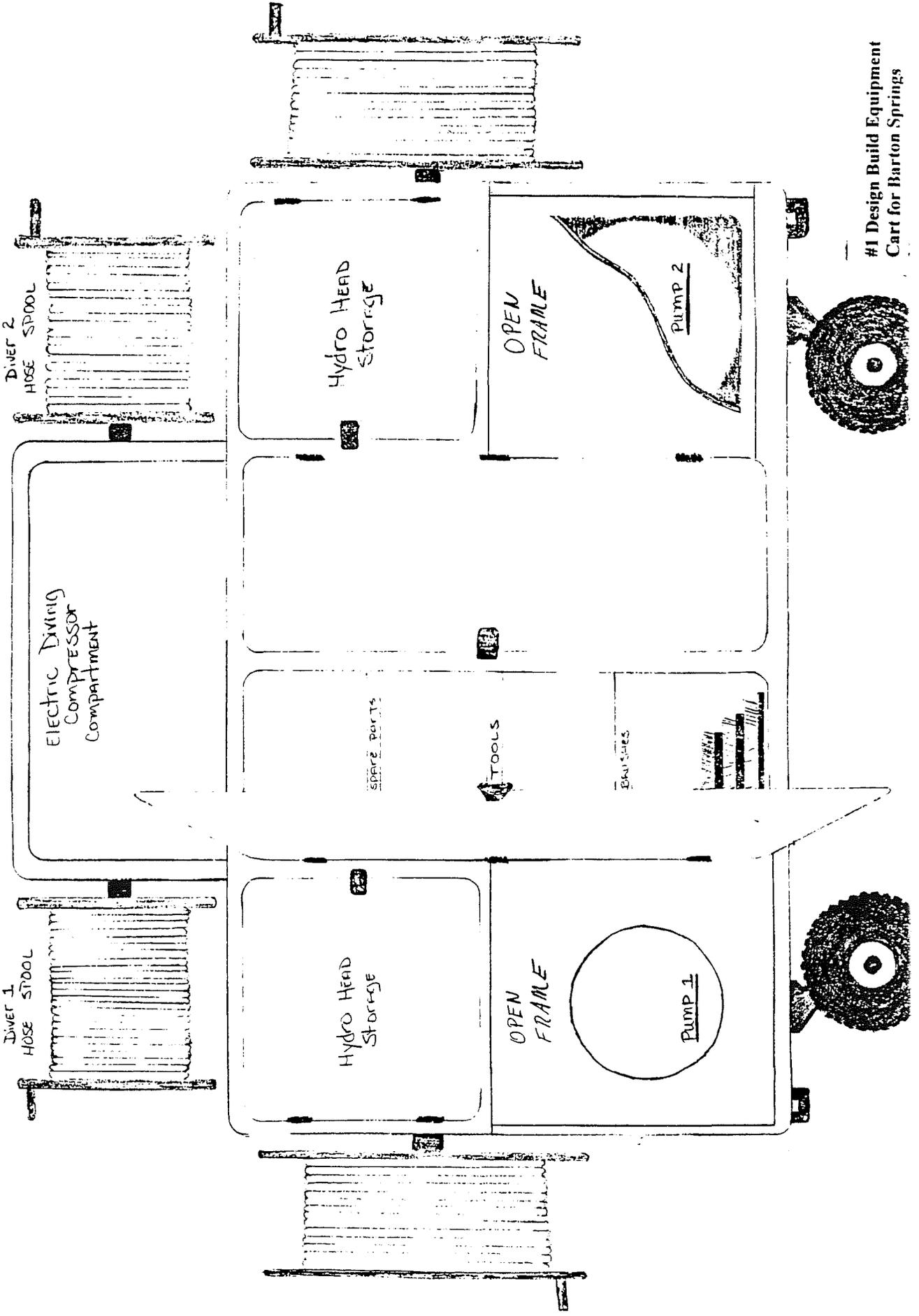
Warranty: 90 Days Parts & Labor

Some components maybe covered by original manufactures warranty, ie. electric motors, switches and etc.

Armada's obligations under this warranty are limited to the repair of or Replacement of materials, at Armada's option. This warranty shall not Cover defects which are the result of misuse, negligence, accident, repair Or alterations.

Extended warranty to 12 months \$3,680.00  
(\$306.66 per month)

3 Day on site set up, operation , maintenance \$1,837.00  
procedures and delivery of equipment to City of Austin,  
Barton Springs. Austin, Texas



#1 Design Build Equipment  
Cart for Barton Springs



MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director  
Parks and Recreation Department

Date: February 9, 1999

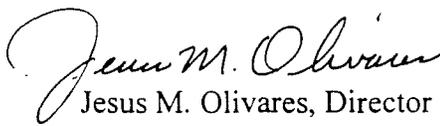
Subject: Construction of Leonard Boat dock and Deck at 2801 River Hills Dr.  
File No. SP-99-0023DS

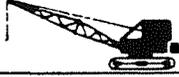
A request has been received from Signor Enterprises on behalf of Laura Leonard to construct a boat dock and deck at 2801 River Hills Dr. on Lake Austin.

The Parks and Recreation Department (PARD) staff has reviewed plans for the proposed project and finds they meet the requirements of Article VI, Part E, (Requirements for the Construction of Boat Docks) of the Land Development Code.

RECOMMENDATION:

I recommend approval of the above request as detailed in the attached site plan.

  
Jesus M. Olivares, Director  
Parks and Recreation Department



**Signor Enterprises, Inc.**

512) 264-8300

Fax: 512) 264-8301

17912A Hamilton Pool Road, Austin, Texas 78738

Date: December 6, 1998  
To: City of Austin  
From: Signor Enterprises Inc.  
Subject: Summary letter for the Leonard Laura Trustee boatdock at 2801 River Hills Road.

This project is in the Lake Austin Watershed as the average lake level at the proposed location is 492.8.

No impervious cover is to be proposed.

All of the project will be constructed by a barge based crain and pile driver, so no trees will be cleared.

The construction process will be: first the pre-constructoin meeting, then the steel pilings are painted with Red Iron Prime #P524, then driven, the lower boathouse deck and side deck will be built then the roof structure and Navigation lights will be installed

Thank you,

A handwritten signature in cursive script that reads "Terry Holley".

Terry Holley,  
Office Manager

cc: file

# Small Project Determination

Department of Development Review and Inspection

Address: 2801 River Hills Road

Owner: Leonard Laura Trustee

Project Description/Activity: Boatdock

*(If the above project description is not accurate, upon staff field review, this determination may be voided.)*

Reviewer: \_\_\_\_\_

It appears that the construction activity at the above address fits the following small project criteria as defined in Section 13-1-604 (a) (1) through (9) of the Land Development Code (LDC). Compliance would be under Section 13-1-604 (a) ( \_\_\_\_ ).

Program Manager: \_\_\_\_\_

- ( ) It appears that the construction activity at the above address qualifies as a minor site activity as authorized under Section 13-1-604 (a) (10) of the LDC.
- ( ) It appears that the following submittal requirement (s) is/are not essential to demonstrate compliance with the LDC as authorized under Section 13-1-604 (b).

Department of Development Review and Inspection:

# DETERMINATION FORM FOR APPLICABLE REGULATIONS

(Under Ordinance # 970905-A)

This completed form must accompany all subdivision and site plan application submittals.

## DEPARTMENTAL USE ONLY

File # Assigned: SP-99-002305 Date Filed: 01/20/99

First Application Filing Date: \_\_\_\_\_ File #: \_\_\_\_\_

Staff Signature: \_\_\_\_\_ Decision Date: \_\_\_\_\_

Comments: Sherrin

Project Name on Application: Leonard Laura Boutdock

Application Type:  Subdivision  Site plan

Project Address / Location: 2801 River Hills Rd.

Legal Description: Lot 1, Block A, River Terrace III

Proposed Land Use (in acres): Total acres 1.794 ID

Single Family/Duplex \_\_\_\_\_ MF/Townhouse/Condo \_\_\_\_\_ Office \_\_\_\_\_

Commercial \_\_\_\_\_ Industrial/R&D \_\_\_\_\_ Other (specify) \_\_\_\_\_

Located in:  Drinking Water Protection Zone (DWPZ)  Desired Development Zone (DDZ)

Watershed(s): LAKE AUSTIN Classification(s): RURAL

If more than one Classification, give acreage in each Classification.

Submitted under Watershed Ordinance: \_\_\_\_\_

### SECTION I. DECLARATIONS Check one in this Section.

A. The attached application is to be reviewed under current regulations.

B. The attached application will voluntarily comply with current regulations as a non-exempt project pursuant to PART 10 of Ordinance # 970905-A. Accompanying this application is the withdrawal of the previously approved application: \_\_\_\_\_ (No filing fee, excluding notice and inspection fees, is required.)

File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_

C. The attached application is subject to a Council approved agreement under Part 15(B) of Ord. # 970905-A. NOTE: Council approved Site Plans approved prior to 1/1/88 may be subject to Section 13-1-615(b)(2).

File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_

If A, B, or C is checked above, then proceed to signature block.

D. The attached application is to be reviewed under the original regulations applied to the First Application for a subdivision or site plan:

File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_

If D is checked above, then proceed to Section II.

(continued on 2)

**SECTION II. ONE-YEAR GRACE PERIOD EXCEPTIONS** under Part 5., Ord. # 950905-A. (Building Permit must be approved and/or NOC filed before 9/6/98.)

- A. In DWPZ, First Application was filed before 9/1/87, excluding small projects and non-profit corporations.
- B. In DWPZ & DDZ, First Application was filed on or after 9/1/87 and before 9/6/97, and was exempt under Section 13-2-502 of the City Code.

If A or B is checked above in Section II, at least one box below must be checked to show that the project has:

- 1. had approval(s) of final subdivision plat(s) (including construction plans) for at least 50% of the land area within the project between 9/1/92 and 9/6/97.
- 2. had site plan approval(s) for at least 30% of the land area within the project between 9/1/92 and 9/6/97.
- 3. since 9/1/92 had costs for development of at least 10% of the current appraised value, or at least \$1 million, excluding land, taxes, interest, attorney's fees, and allocated corporate overhead.

**SECTION III. EXCEPTIONS TO THE GENERAL RULES** under Part 6., Ord. # 950905-A. Check one box in this section only if the application does not fall into SECTION II.A. or II.B. categories above:

*This application is for a project within the DWPZ and:*

- A. is a single family subdivision with First Application filed on or after 9/1/87 and before 9/6/97 with no Section 13-2-502 exemption. (Notice of Construction (NOC) must be filed before 9/6/99.)
- B. is other than a single family subdivision with First Application filed on or after 9/1/87 and before 9/6/97 with no Section 13-2-502 exemption. (Site Plan must be approved before 9/6/98, & Building Permit must be approved and/or NOC filed before 9/6/99.)
- C. is a Small Project (as defined in Ord.# 970905-A), or is owned by a non-profit corporation for which a First Application was filed before 9/6/97. (Building Permit must be approved and/or NOC filed before 9/6/2000.)
- D. First Application was filed on or after 9/6/97. (Building Permit must be approved and/or NOC filed within 3 years of First Application filing date.)

*This application is for a project within the DDZ and:*

- E. First Application was filed before 9/1/87. (Building Permit must be approved and/or NOC filed before 9/6/99.)
- F. First Application was filed on or after 9/1/87 and before 9/6/97. (Building Permit must be approved and/or NOC filed before 9/6/2002.)
- G. First Application was filed on or after 9/6/97. (Building Permit must be approved and/or NOC filed within 5 years of First Application filing date.)

**Attach to a summary letter all documentation necessary to support any claim on this form to the exemptions within, or the non-applicability of, Ordinance # 970905-A, including, but not limited to, a complete application history from the FIRST APPLICATION to the present, with copies of the APPROVED FIRST APPLICATION and subsequent application approvals, or if applicable, a copy of the approved site plan approved before 9/6/97 or of the Council approved agreement.**

Signature of Property Owner or Agent: Terry Holley Date: 1/6/99  
Printed Name Terry Holley Phone: 264-8500 Fax: 264-8301  
File # Assigned \_\_\_\_\_



MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director  
Parks and Recreation Department

Date: February 9, 1999

Subject: Construction of Swisher Boat dock at 1216 Bruton Springs Rd.  
File No. SP-99-0022DS.

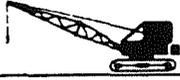
A request has been received from Signor Enterprises on behalf of Richard Swisher to construct a boat dock at 1216 Bruton Springs Rd.

The Parks and Recreation Department (PARC) staff has reviewed plans for the proposed project and finds they meet the requirements of Article VI, Part E, (Requirements for the Construction of Boat Docks) of the Land Development Code.

RECOMMENDATION:

I recommend approval of the above request as detailed in the attached site plan.

Jesus M. Olivares, Director  
Parks and Recreation Department



**Signor Enterprises, Inc.**

512) 264-8300

Fax: 512) 264-8301

17912A Hamilton Pool Road, Austin, Texas 78738

Date: December 6, 1998  
To: City of Austin  
From: Signor Enterprises Inc.  
Subject: Summary letter for the R. Swisher boatdock at 1216 Bruton Springs Road.

This project is in the Lake Austin Watershed as the average lake level at the proposed location is 492.8.

No impervious cover is to be proposed.

All of the project will be constructed by a barge based crain and pile driver, so no trees will be cleared.

The construction process will be: first the pre-constructoin meeting, then the steel pilings are painted with Red Iron Prime #P524, then driven, the lower boathouse deck and side deck will be built then the roof structure and Navigation lights will be installed

Thank you,

A handwritten signature in black ink, appearing to read 'Terry Holley', is written over the typed name.

Terry Holley,  
Office Manager

cc: file

# DETERMINATION FORM FOR APPLICABLE REGULATIONS

(Under Ordinance # 970905-A)

This completed form must accompany all subdivision and site plan application submittals.

705  
7/20  
/10

## DEPARTMENTAL USE ONLY

File # Assigned: SP-99-002205 Date Filed: 01/20/99  
First Application Filing Date: \_\_\_\_\_ File #: \_\_\_\_\_  
Staff Signature: \_\_\_\_\_ Decision Date: \_\_\_\_\_  
Comments: SP

Project Name on Application: R. Scott Swisher Dock  
Application Type:  Subdivision  Site plan  
Project Address / Location: 1216 Bruton Springs Rd.  
Legal Description: Lot. 18, Bruton Springs Subdivision  
Proposed Land Use (in acres): Total acres 6000   
Single Family/Duplex \_\_\_\_\_ MF/Townhouse/Condo \_\_\_\_\_ Office \_\_\_\_\_  
Commercial \_\_\_\_\_ Industrial/R&D \_\_\_\_\_ Other (specify) Boat dock  
Located in:  Drinking Water Protection Zone (DWPZ)  Desired Development Zone (DDZ)  
Watershed(s): LAKE AUSTIN Classification(s): RURAL  
If more than one Classification, give acreage in each Classification.  
Submitted under Watershed Ordinance: \_\_\_\_\_

### SECTION I. DECLARATIONS Check one in this Section.

- A. The attached application is to be reviewed under current regulations.
- B. The attached application will voluntarily comply with current regulations as a non-exempt project pursuant to PART 10 of Ordinance # 970905-A. Accompanying this application is the withdrawal of the previously approved application: (No filing fee, excluding notice and inspection fees, is required.)  
File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_
- C. The attached application is subject to a Council approved agreement under Part 15(B) of Ord. # 970905-A.  
NOTE: Council approved Site Plans approved prior to 1/1/88 may be subject to Section 13-1-615(b)(2).  
File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_

If A, B, or C is checked above, then proceed to signature block.

- D. The attached application is to be reviewed under the original regulations applied to the First Application for a subdivision or site plan:  
File #: \_\_\_\_\_ Filing Date: \_\_\_\_\_ Approval Date: \_\_\_\_\_

If D is checked above, then proceed to Section II.

(continued on 2)

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- 2. had site plan approval(s) for at least 30% of the land area within the project between 9/1/92 and 9/6/97.
- 3. since 9/1/92 had costs for development of at least 10% of the current appraised value, or at least \$1 million, excluding land, taxes, interest, attorney's fees, and allocated corporate overhead.

**SECTION III. EXCEPTIONS TO THE GENERAL RULES** under Part 6., Ord. # 950905-A. Check one box in this section only if the application does not fall into SECTION II.A. or II.B. categories above:

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- C. is a Small Project (as defined in Ord.# 970905-A), or is owned by a non-profit corporation for which a First Application was filed before 9/6/97. (Building Permit must be approved and/or NOC filed before 9/6/2000.)
- D. First Application was filed on or after 9/6/97. (Building Permit must be approved and/or NOC filed within 3 years of First Application filing date.)

*This application is for a project within the DDZ and:*

- E. First Application was filed before 9/1/87. (Building Permit must be approved and/or NOC filed before 9/6/99.)
- F. First Application was filed on or after 9/1/87 and before 9/6/97. (Building Permit must be approved and/or NOC filed before 9/6/2002.)
- G. First Application was filed on or after 9/6/97. (Building Permit must be approved and/or NOC filed within 5 years of First Application filing date.)

**Attach to a summary letter all documentation necessary to support any claim on this form to the exemptions within, or the non-applicability of, Ordinance # 970905-A, including, but not limited to, a complete application history from the FIRST APPLICATION to the present, with copies of the APPROVED FIRST APPLICATION and subsequent application approvals, or if applicable, a copy of the approved site plan approved before 9/6/97 or of the Council approved agreement.**

Signature of Property Owner or Agent: Terry D. Holley Date: 1/6/99  
Printed Name Terry Holley Phone 264-8300 Fax: 264-8301  
File # Assigned \_\_\_\_\_



MEMORANDUM

To: Parks and Recreation Board

From: Jesus M. Olivares, Director  
Parks and Recreation Department

Date: February 9, 1999

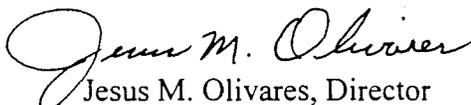
Subject: Construction of Furgerson Boat dock and Deck at 3011 Brass Buttons Trl.  
Drive File No. SP-99-0024DS

A request has been received from Dennis Furgerson to construct a boat dock and deck at 3011 Brass Buttons Trl. on Lake Austin.

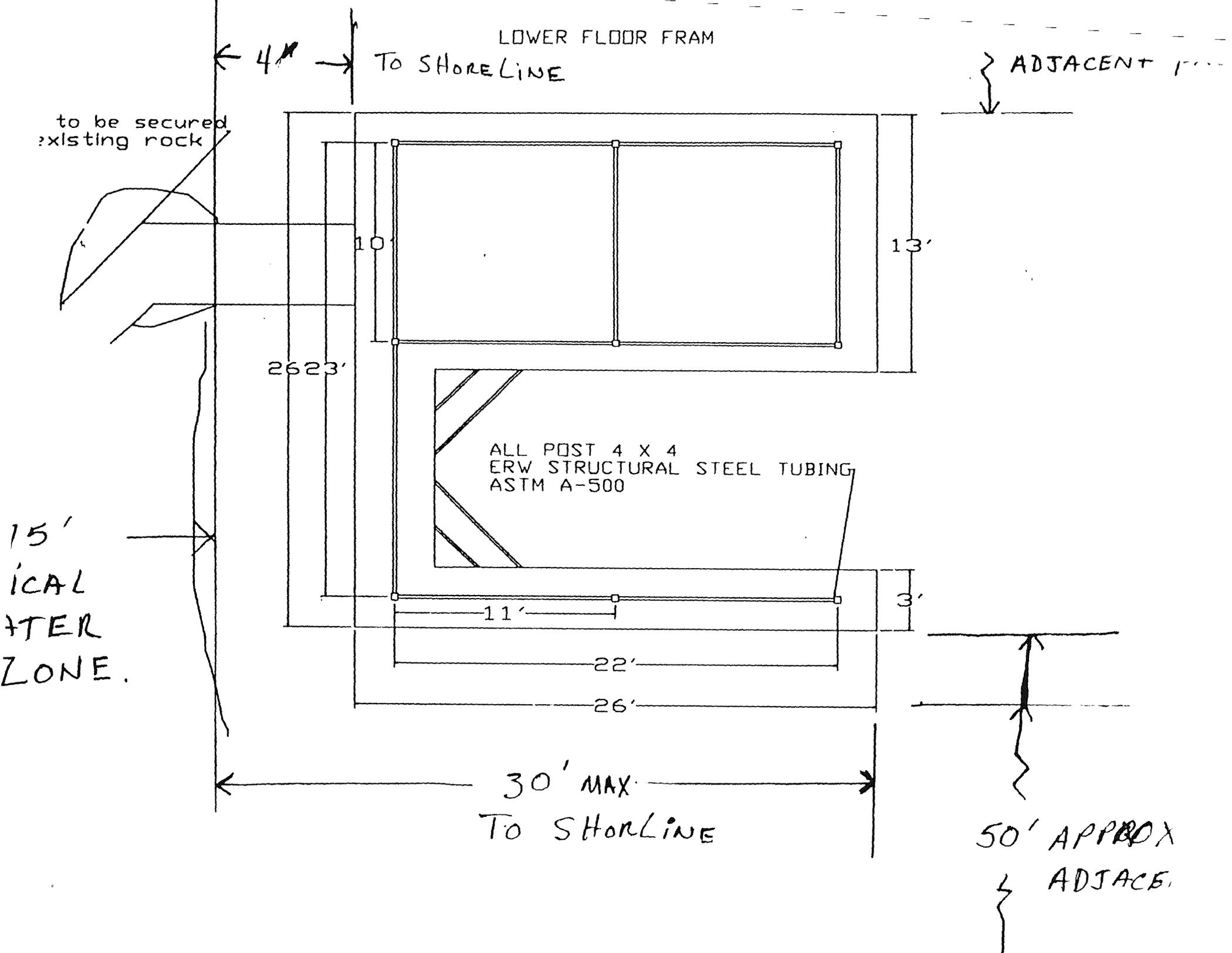
The Parks and Recreation Department (PARC) staff has reviewed plans for the proposed project and finds they meet the requirements of Article VI, Part E, (Requirements for the Construction of Boat Docks) of the Land Development Code.

RECOMMENDATION:

I recommend approval of the above request as detailed in the attached site plan.

  
Jesus M. Olivares, Director  
Parks and Recreation Department







MEMORANDUM

To: Parks Board Members

From: Jesus M. Olivares, Director  
Parks and Recreation Department

Subject: Request for Use Agreement across Parkland for William Cannon Drive  
Improvement Project

Date: February 5, 1999

The Public Works and Transportation Department (TPWD), in cooperation with the County and State, has a construction project for William Cannon Drive that will require a Use Agreement on parkland.

The project is to raise the road and bridge out of the floodplain, increase the width from two to six traffic lanes and extend the road from Pleasant Valley Road to Scenic Loop. The project crosses the Onion Creek Greenbelt east of the Onion Creek Bridge. Sidewalks will be placed on both sides of the road, giving access to the new Hillcrest Elementary School near Scenic Loop. The new road will provide improved access to a tract of land planned for acquisition for a soccer complex.

The .473 acre tract of parkland affected by the Use Agreement is part of the Onion Creek Greenbelt but is not developed and has no utility for active park use. Trails and neighborhood park improvements are across the creek, adjoining the neighborhood. There is no neighborhood near the .473 acre tract.

PARD staff will coordinate the location of driveways into the soccer complex and minimize the impact upon the .473 acre tract through re-vegetation with native grasses.

**Recommendation**

I recommend approval of the proposed Use Agreement on Parkland for the William Cannon Drive project.

Contact me if you require additional information.

Jesus M. Olivares, Director  
Parks and Recreation Department



## MEMORANDUM

**TO:** Jesus Olivares, Director  
Parks and Recreation Department

**FROM:** Peter Rieck, Director  
Public Works and Transportation Department

**DATE:** January 11, 1999

**SUBJECT:** Request for Use Agreement Across Parkland  
William Cannon Drive Improvement Project  
CIP No. 825-607-2056

gmo - ...  
...

(PARKS BOARD ...  
MANY/KIM-FRE ...

.473 ac

600' in Onm CRQB

The Department of Public Works and Transportation hereby requests one (1) permanent use agreement for the construction, operation, and maintenance of the proposed reconstruction of East William Cannon Drive from Pleasant Valley Road to Scenic Loop (McKinney Falls Parkway). This is a joint City, Travis County, and State Project. The Texas Department of Transportation (TxDOT) is implementing the project. Park issues were addressed by TxDOT in the environmental assessment. Parks and Recreation Department approval of this use of parkland was provided in a letter from you to Mike Walker of TxDOT dated March 11, 1997. The required public hearing was conducted by TxDOT on September 11, 1997.

The near-term construction will construct the north one-half of a divided six-lane roadway. The design and right-of-way are being performed to include the construction of the south half of the divided six-lane roadway when additional funding becomes available. The project will include bridges over Onion Creek, the drainage relief channel across the Onion Creek oxbow and Marble Creek. The design includes sidewalk on both sides, though only the north sidewalk will be constructed initially. This project will greatly enhance accessibility in the area for residents and emergency vehicles by removing the low water crossing of Onion Creek, which floods every one to two years. It will provide access to Hillcrest Elementary School, being constructed east of Running Water Drive to open in August 1999. It will also generally improve the transportation network in the southeast sector of Austin.

Attached are the following documents for your use and consideration to support this request:

1. General Location Map;
2. Information Packet;
3. Tree Survey, Tree Replacement Calculations;
4. Field Note Descriptions Approved by Technical Writing Section;
5. Strip Map with List of Parcels Involved;
6. Engineer Drawings for All Phases.

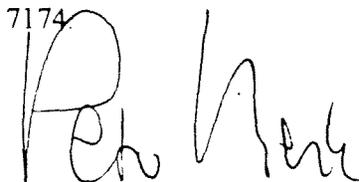
14 1999

From these documents, you will note that the permanent use portion of the proposed agreement contains a total of 0.473 acres (approximately 20,602 square feet).

The William Cannon Drive Improvement Project will include the construction of William Cannon Drive in two sections, 4072 linear feet from Pleasant Valley Road to Dixie Drive and 3609 linear feet from Running Water Drive to McKinney Falls Parkway. The project will be constructed in three phases. Phase I will include construction of the north half of the divided roadway from Running Water Drive to McKinney Falls Parkway. Phase II will construct the north half of the divided roadway from Pleasant Valley Road to Dixie Drive. Phase III will construct the south half of the divided roadway when funding becomes available. Construction of Phases I and II are expected to begin approximately in March 1999. The project will connect the current terminus of William Cannon Drive to McKinney Falls Parkway and ultimately improve William Cannon Drive to a six-lane divided roadway, including bridges over Onion Creek, the drainage relief channel across the Onion Creek oxbow, and Marble Creek. The project routing and design documents were prepared by the Texas Department of Transportation, and the proposed routing is shown on the general Location Map. Approximately 600.83 linear feet of the project is located within parkland which is identified as the Onion Creek District Park. The area affected in the Onion Creek District Park is within the 100-year flood plain of Onion Creek. Public Works, in cooperation with the Utility, PARD, ECSD, and others, have agreed that the proposed alignment is the most feasible and prudent alternative to crossing this parkland. All reasonable planning efforts have been taken to minimize harm to the area. All construction and site restoration for the project will be completed in accordance with the *Standard Specifications and Construction Standards* of the Texas Department of Transportation.

This project also includes other real estate acquisitions which will improve the transportation network in east Austin.

We request that the necessary documentation be prepared for consideration of this request by the Parks and Recreation Board. If you have any questions or need any additional information, please feel free to contact Richard Kroger, P.E., Project Manager at 499-7219 or Connie Real, Property Agent III, at 499-

7174  


Peter Rieck, Director  
Department of Public Works and Transportation

#### Attachments

cc: Richard Kroger, P.E., Project Manager  
Connie Real, Property Agent III, w/ attachments  
Stuart Strong, Division Manager  
Matthew Kite, P.E.

## EXHIBIT \_\_\_\_\_

**County:** Travis  
**Parcel No.:** 3  
**Highway:** William Cannon Drive  
**Limits:** From: Pleasant Valley Road  
                   To: Scenic Loop  
**CSJ:** 8050-14-003

## FIELD NOTE DESCRIPTION FOR PARCEL 3

DESCRIPTION OF A 0.1913 HECTARE (0.473 ACRE) TRACT OF LAND LOCATED IN THE SANTIAGO DEL VALLE GRANT, ABSTRACT NO. 24, TRAVIS COUNTY, TEXAS, BEING A PORTION OF THAT CALLED 5.594 ACRE TRACT OF LAND DESCRIBED IN THE DEED TO THE CITY OF AUSTIN RECORDED IN VOLUME 6502, PAGE 1034 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 0.1913 HECTARE (0.473 ACRE) TRACT, AS SHOWN ON A RIGHT-OF-WAY SKETCH PREPARED BY SAM, INC. FOR THIS PARCEL, BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

**COMMENCING** at a ½-inch iron rod set at the most easterly south corner of Lot 2, Onion Creek Forest, Section 3 as recorded in Volume 68, Page 48 of the Plat Records of Travis County, Texas, said corner being common with the most easterly south corner of a called 0.87 acre tract of land described in Exhibit "B" in the deed from Onion Creek Forest Developers to the City of Austin as recorded in Volume 5057, Page 152, of the Deed Records of Travis County, Texas and the most northerly east corner of a called 62.33 acre tract of land described in Exhibit "A" in said deed of record in Volume 5057, Page 152, said common corner also lying in the most northwesterly line of said called 5.594 acre tract;

**THENCE** N 20° 11' 46" E, with said common line between said Lot 2, said called 0.87 acre tract, and said 5.594 acre tract, a distance of 28.849 meters (94.65 feet) to a ½-inch iron rod with TxDOT aluminum cap set for the **POINT OF BEGINNING** of the tract herein described and the most easterly corner of said Lot 2, being the most easterly corner of said called 0.87 acre tract, also being in the south existing right-of-way line of William Cannon Drive and being 21.686 meters (71.15 feet) right of Engineers Centerline "A" station 1+437.693;

**THENCE** with said south existing right-of-way line of William Cannon Drive and with northwestern and northeastern lines of said called 5.594 acre tract for the following five (5) calls numbered 1 through 5:

- 1) N 20° 11' 46" E, a distance of 12.030 meters (39.47 feet) to a calculated angle point in said common line,
- 2) S 38° 06' 14" E, a distance of 16.078 meters (52.75 feet) to a calculated angle point in said common line,
- 3) S 32° 34' 14" E, a distance of 29.380 meters (96.39 feet) to a calculated angle point in said common line,
- 4) S 24° 55' 01" E, a distance of 62.795 meters (206.02 feet) to a 3/4-inch iron pipe found for angle point in said common line, and

- 5) S 25° 21' 10" E , a distance of 74.879 meters (245.67 feet) to a ½-inch iron rod found for angle point in said common line, being at the intersection of the proposed south right-of-way line and the existing south right-of-way line of William Cannon Drive and being 35.572 meters (116.71 feet) right of Engineers Centerline "A" station 1+614.408, from which a ½-inch iron rod set for an angle point in said existing right-of-way line and an angle point in said northeastern line bears, S 35° 03' 58" E, a distance of 69.598 meters (228.34 feet), said set ½-inch iron rod being 32.814 meters (107.66 feet) right of Engineers Centerline "A" station 1+683.951;

**THENCE** leaving said common line and through the interior of said 5.594 acre tract, with said proposed south right-of-way line for the following four (4) calls numbered 6 through 9:

- 6) N 34° 17' 42" W, at a distance of 59.977 meters (196.76 feet) passing a ½-inch iron rod with TxDOT aluminum cap set 37.142 meters (121.86 feet) left of Engineers Centerline "A" PT station 1+554.451, and continuing for a total distance of 83.221 meters (273.03 feet) to a ½-inch iron rod with TxDOT aluminum cap set for the point of curvature of a curve to the left and being 37.446 meters (122.85 feet) right of Engineers Centerline "A" station 1+530.232,
- 7) with the arc of said curve to the left, an arc distance of 53.736 meters (176.30 feet) through a central angle of 03° 28' 08", having a radius of 887.547 meters (2911.89 feet) and a chord that bears, N 36° 01' 47" W, a distance of 53.728 meters (176.27 feet) to a ½-inch iron rod with TxDOT aluminum cap set for corner in said proposed right-of-way line and being 37.446 meters (122.85 feet) right of Engineers Centerline "A" PC station 1+474.228,
- 8) N 52° 14' 09" E , a distance of 15.701 meters (51.51 feet) to a ½-inch iron rod with TxDOT aluminum cap set for corner in said proposed right-of-way line and being 21.746 meters (71.35 feet) right of Engineers Centerline "A" PC station 1+474.228, and
- 9) N 37° 40' 14" W , a distance of 36.536 meters (119.87 feet) to the **POINT OF BEGINNING** and containing 0.1913 hectare (0.473 acre) of land, more or less.

All bearings are based on the Texas State Plane Coordinate System, Central Zone, NAD 83, based upon control coordinates provided to SAM, Inc. by the Texas Department of Transportation.

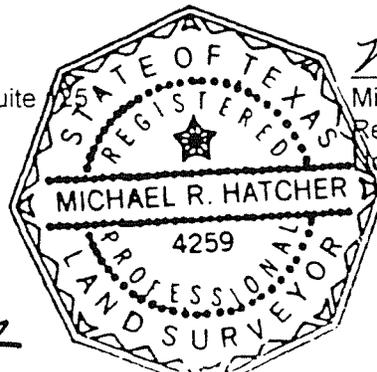
Note: English units, shown in parenthesis herein, are provided for information only.

THE STATE OF TEXAS                   ↓  
    ↓  
 COUNTY OF TRAVIS                   ↓                   KNOW ALL MEN BY THESE PRESENTS:

That I, Michael R. Hatcher, a Registered Professional Land Surveyor, do hereby certify that the above description is true and correct to the best of my knowledge and belief and that the property described herein was determined by a survey made on the ground under my direction and supervision.

WITNESS MY HAND AND SEAL at Austin, Travis County, Texas this the 5<sup>th</sup> day of August, 1997 A.D.

SURVEYING AND MAPPING, Inc.  
 4029 Capital Of Texas Hwy., So. Suite  
 Austin, Texas 78704



*Michael R. Hatcher*  
 Michael R. Hatcher  
 Registered Professional Land Surveyor  
 No. 4259 - State of Texas

E.N. 0637  
**FIELD NOTES REVIEWED**  
 By AK Segura Date 8/11/97  
 Arch./Eng. Services Division

SCALE 1:1000  
TRAVIS COUNTY, TEXAS

LEGEND

- ⊙ 1/2" IRON PIPE FOUND (IPF) - UNLESS NOTED
- 1/2" IRON ROD FOUND - UNLESS NOTED
- 1/2" IRON ROD SET W/TXDC ALUMINUM CAP - UNLESS NOTED
- ⊖ 1/2" IRON ROD SET UNLESS NOTED
- △ CALCULATED POINT
- PROPERTY LINE
- P.O.B. POINT OF BEGINNING
- P.O.R. POINT OF REFERENCE
- P.O.C. POINT OF COMMENCING
- [ ] RECORD INFORMATION

1+614.408  
35.572m RT (116.71')

S 35°03'58" E  
69.598m (228.34')

1+683.951  
32.814m RT (107.66')

P.O.R. - PARCEL 3

ENGINEERS CENTERLINE "A" SCALE: 1:1000  
CURVE DATA

P.I. STA. 1+514.365  
Δ = 04°58'09" RT  
T = 40.136m (131.68')  
L = 80.223m (263.20')  
R = 925.000m (3034.77')  
C = 80.198m (263.12')  
CB = S 35°16'46" E  
P.C. STA. 1+474.228  
P.T. STA. 1+554.451

1+474.059  
35.123m LT (115.23')

FRANK M. HOLLOWAY  
CALLED 89.36 ACRES  
VOL 3225, PG. 1348

S 37°45'51" E  
183.242m (601.19')

ENGINEERS CENTERLINE "A"

S 35°57' E - 52.75'  
S 38°06'14" E - 16.078m (52.75')

[S 30°25' E - 96.39']  
S 32°34'14" E - 29.380m (96.39')

1+500

WILLIAM CANNON DR.  
EXISTING R.O.W.

S 24°55'01" E - 62.795m (206.02')

EXISTING R.O.W.

N 37°40'14" W  
36.536m (119.87')

P.O.B. PARCEL 3  
1+437.693  
21.686m RT (71.15')

N 20°11'46" E  
12.030m (39.47')

N 52°14'09" E  
15.701m (51.51')

0.1913 HECTARE  
0.473 ACRE

EXISTING R.O.W.

1+474.228  
37.446m RT (122.85')

1+530.232  
37.446m RT (122.85')

Δ = 03°28'08"  
T = 26.876m (88.18')  
L = 53.736m (176.30')  
R = 887.547m (2911.89')  
C = 53.728m (176.27')  
CB = N 36°01'47" W

CENTERLINE PT  
1+554.451  
37.142m RT (121.85')

CITY OF AUSTIN  
CALLED 62.33 ACRES  
VOL 5057, PG. 152  
EXHIBIT "A"

1+614.408  
35.572m RT (116.71')

SEE DETAIL "A"

SANTIAGO DEL VALLE GRANT  
ABST. 24

A\* LOT 2  
ONION CREEK FOREST  
SECTION 3  
VOL 68, PG. 48

B\* CITY OF AUSTIN  
CALLED 0.87 ACRE  
[PART OF LOT 2]  
VOL 5057, PG. PG. 152  
EXHIBIT "A"

LINE TABLE

L1	N 20°11'46" E	12.030m (39.47')	[39.47']
----	---------------	------------------	----------

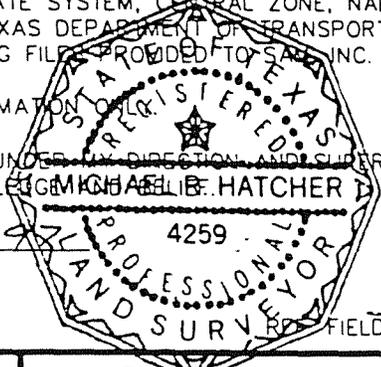
NOTES:

1. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. RECORD INFORMATION ON THIS DRAWING IS BASED ON A PUBLIC RECORDS SEARCH BY THE SURVEYOR AND MAY NOT INCLUDE ALL INSTRUMENTS PERTAINING TO THIS PROPERTY.
2. ALL BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 83, BASED UPON CONTROL COORDINATES PROVIDED TO SAM, INC. BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
3. IMPROVEMENTS SHOWN HEREON ARE BASED UPON DIGITAL MAPPING FILES PROVIDED TO SAM, INC. BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
4. ENGLISH UNITS SHOWN IN PARENTHESIS ARE PROVIDED FOR INFORMATION ONLY.

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND UNDER MY DIRECTION AND SUPERVISION AND THAT THIS PLAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Michael R. Hatcher*  
MICHAEL R. HATCHER  
REGISTERED PROFESSIONAL LAND SURVEYOR  
No. 4259 - STATE OF TEXAS

08-05-2024  
DATE

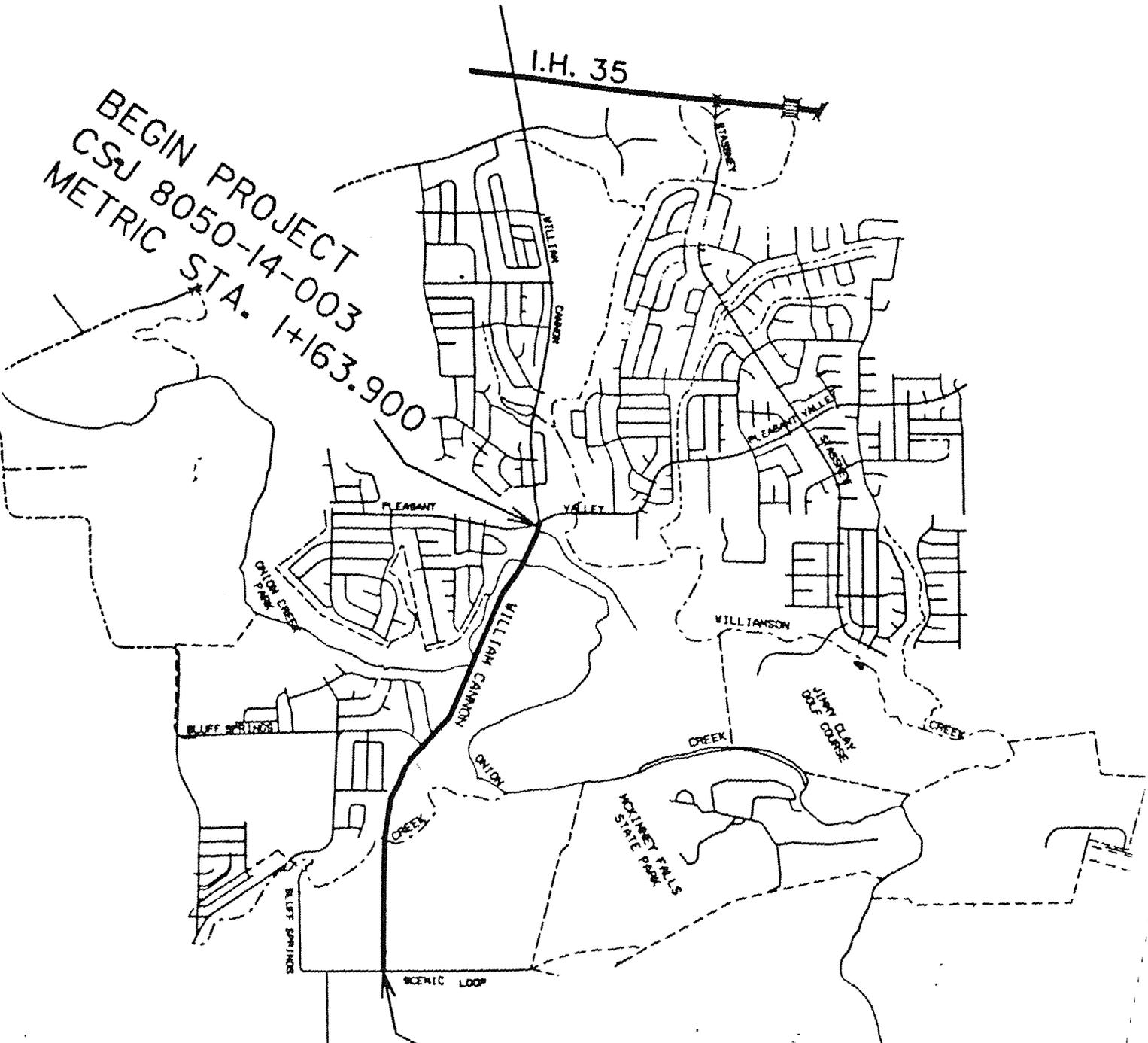


4029 Capital of Texas Highway, So.  
Brodie Oaks Professional Plaza, Suite 125  
Austin, Texas 78704  
(512) 447-0575  
Fax: (512) 326-3029

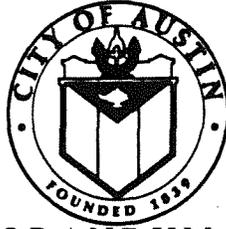
RIGHT-OF-WAY SKETCH  
SHOWING PROPERTY OF  
CITY OF AUSTIN  
CSJ NO. 8050-14-003

9491-48

BEGIN PROJECT  
CSJ 8050-14-003  
METRIC STA. 1+163.900



END PROJECT  
CSJ 8050-14-003  
METRIC STA. 1+163.900



## MEMORANDUM

To: Parks Board Members

From: Jesus M. Olivares, Director  
Parks and Recreation Department

Subject: Request for License Agreement for Natural Gas Pipeline Across Parkland

Date: February 16, 1999

A new subdivision, The Enclave at Spicewood, is in construction next to an undeveloped branch of the Bull Creek Greenbelt and requires natural gas service from a gas service pipe across the greenbelt. Extending the new service pipe across the greenbelt will require review by the Parks Board.

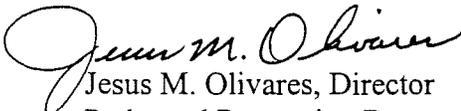
The 2" gas pipeline is to be buried in a trench approximately 3' deep. Laying the flexible pipe will necessitate entering the park with a small trenching machine, installing the pipe, replacing soils and re-vegetating with native grasses.

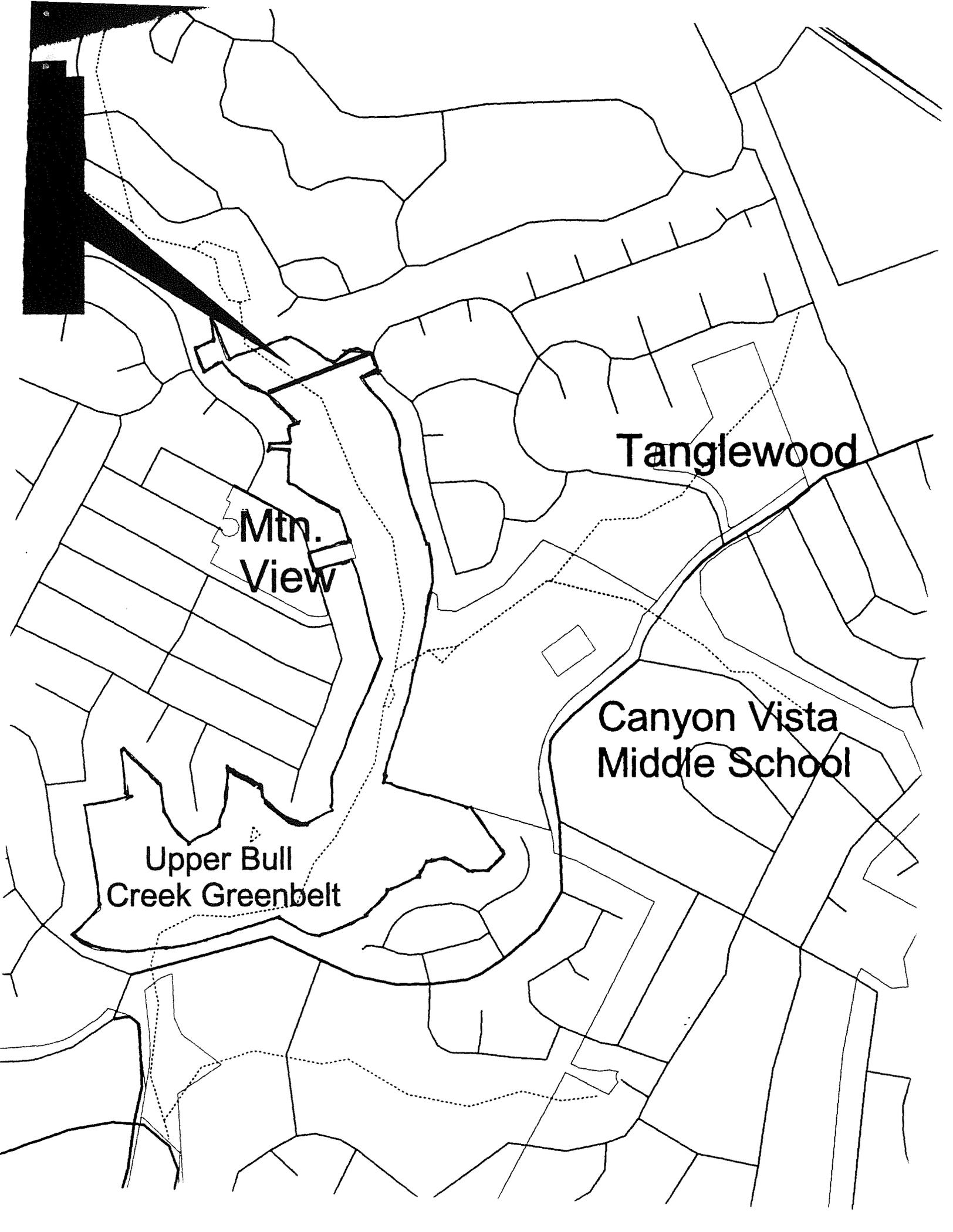
No machinery or materials will be stored on parkland.

This branch of the greenbelt does not have an existing trail but the pipeline will not prohibit construction of a trail in the future.

### **Recommendation**

I recommend approval of the pipeline construction, with the requirement that the area be fully restored and re-vegetated with native grasses.

  
Jesus M. Olivares, Director  
Parks and Recreation Department



Mtn.  
View

Upper Bull  
Creek Greenbelt

Tanglewood

Canyon Vista  
Middle School

**Parks and Recreation Board  
Land and Facilities Committee  
February 1, 1999 – Noon  
PARD Main Office – Conference Room  
Meeting Notes**

**1. Overview of Park Police – Warren Struss**

Warren Struss and Mike Hargett gave an overview including the statutory authority for having park police, preventive role of the officers, and training. Park Police also assist with boater education and cash handling issues. Sgt. Hargett gave an explanation of his personal experience with the Austin Police Association having worked on the police force at Brackenridge Hospital.

**2. Gas Pipeline Access across Bull Creek**

Staff recommended approval. Project is a 3' deep trench across the greenbelt and a 25 foot wide use area. Revegetation will be required. Mary Ruth moved recommending approval to the full board.

**3. Barton Springs Projects Overview**

Stuart gave an explanation of the projects currently pending in the Barton Springs Pool area including the ADA work.

#### **4. Cleaning of Barton Springs – Farhad Madani**

Farhad Madani and Robert Hanson showed a brief video of a new pool cleaning device that works underwater and has been ordered for Barton Springs Pool.

#### **5. William Cannon Drive License Agreement**

Staff recommended approval. Stuart Strong gave the overview of the TxDot request for ROW to use in road widening and elevating the current roadway to help prevent flooding. Mary Ruth recommended approval and taking the issue to the full board. Mike Librik had unresolved concerns. Elaine broke the tie and the issue will go to the full board.

#### **6. Naming of Park for Willie Nelson – status report**

This issue is still under study. The Airport redevelopment folks did not act on the idea to name the park for Willie. Staff will need to provide some alternative sites to look at before the idea is ready to go forward. Issues of Willie's character and his past brushes with the law were discussed.